

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of ~~198~~

Complete if Known

Application Number	09/110,694
Filing Date	7/7/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

Attorney Docket Number

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
/SK/		1,001,589		Hatfield	08-23-1911	
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/SK/		4,274,938		Schulten	06-23-1981	
		4,337,126		Gilligan, III et al.	06-29-1982	
		4,464,990		Bendler	08-14-1984	
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/SK/		5,449,434		Hooke et al.	09-1995	
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/SK/		WO	90/10935	A1	Pons	09-20-1990		
/SK/		WO	90/14668	A2	Cravens	11-29-1990		
/SK/		WO	91/01036	A1	Dufour	01-24-1991		
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/SK/		WO	00/07931	A1	Mills	02-17-2000		
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V		WO	02/16956	A1	Mills	2-28-2002		
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
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/SK/		S. Aaronson, "Hydrino Theory: Which Overtures Quantum Theory, Is in Turn Overturned by Doofusino Theory," < http://www.scottaaronson.com/writings/doofusino.html >			
		Associated Press. "Panel Opposes Cold Fusion Efforts." <i>The Washington Post</i> , July 13, 1989, p. A14.			
		Associated Press. "Pennsylvania Company...Cold Fusion Mystery." <i>Lewis Nexis Reprint</i> , 1991.			
		Associated Press. "Physicist: Utah Cold Fusion Gear Doesn't Work." <i>The Washington Post</i> , March 29, 1990, p. A3.			
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/SK/		"Atomic Spectroscopy" (internet page) physics.nist.gov/Pubs/AtSpec/node20.html (author and date unknown)			
/SK/		Baard, Erik. "The Empire Strikes Back." <i>The Village Voice</i> , April 26-May 2, 2000			
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/SK/		Blue. "Cold Fusion Lies 6." Deja News on the Internet, April 13, 1997, pp. 1-2, available at http://x7.dejanew/us.com			
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		Breton. "Ridiculously Easy Test Yields Claim of Energy Triumph." <i>The Washington Times</i>, March 24, 1989, p. A5.	
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		Broad. "Cold-Fusion Claim is Faulted on Ethics as Well as Science." <i>The New York Times</i> , March 17, 1991, pp. 1 and 30.			
		Brodowsky, "Solubility and diffusion of hydrogen and deuterium in Palladium and Palladium Alloys," <i>Tech. Bulletin, England Indust.</i> , Vol. 7, No. 1-2 (1966), pp. 41-50.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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		<input checked="" type="checkbox"/> ²		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	09/110,694
Filing Date	7/7/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut
Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		84. Mills et al., "Comparison of Balmer α Line Broadening and Power Balances of Helium-Hydrogen Plasma Sources," Braz. J. Phys., submitted. (Internet Publication Date: March 12, 2003.)	
		83. Mills et al., "Comparison of Water-Plasma Sources of Stationary Inverted Balmer and Lyman Populations for a CW HI Laser," J. Appl. Spectroscopy, in preparation.	
		82. Mills et al., "Synthesis and Characterization of Diamond Films from MPCVD of an Energetic Argon-Hydrogen Plasma and Methane," Journal of Materials Science, submitted. (Internet Publication Date: May 7, 2003.)	
		81. R. Mills, et. al., "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), pp. 83-104. (Internet	
		80. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales De La Fundation Louis De Broglie, Vol. 30, No. 2, (2005), pp. 129-151. (Internet Publication Date: Jan. 27, 2003.)	
		79. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted.	
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		77. Mills et al., "Water Bath Calorimetric Study of Excess Heat in 'Resonant Transfer' Plasmas," Journal of Applied Physics, Vol. 96, No. 6, (2004), pp. 3095-3102. (Internet Publication Date: June 16, 2003.)	
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Sheet	38	of	3898	Attorney Docket Number	
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		76. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Journal of Applied Spectroscopy, submitted. (Internet Publication Date: Feb. 12, 2002.)			
		75. Mills et al., "Novel Liquid-Nitrogen-Condensable Molecular Hydrogen Gas," Acta Physica Polonica A, submitted. (Internet Publication Date: Oct. 29, 2002.)			
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		73. Mills et al., "Energetic Helium-Hydrogen Plasma Reaction," AIAA Journal, submitted. (Internet Publication Date: July 26, 2002.)			
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First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

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		68. Mills, et. al. "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser." IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: August 16, 2002)			
		67. Mills et al., "Extreme Ultraviolet Spectroscopy of Helium-Hydrogen Plasma," J. Phys. D, Vol. 36, (2003), pp. 1535–1542. (Internet Publication Date: July 17, 2002.)			
		66. Mills et al., "Spectroscopic Evidence for a Water-Plasma Laser," Europhysics Letters, submitted. (Internet Publication Date: Sept. 19, 2002.)			
		65. Mills et al., "Spectroscopic Evidence for Highly Pumped Balmer and Lyman Populations in a Water-Plasma," J. of Applied Physics, submitted. (Internet Publication Date: Sept. 18, 2002.)			
		64. Mills et al., "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Internet Publication Date: June 26, 2002.)			
		63. Mills et al., "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochimica Acta, Vol. 406, Issue 1–2, (2003), pp. 35–53. (Internet Publication Date: June 25, 2002.)			
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		61. Mills et al., "Highly Stable Amorphous Silicon Hydride," Solar Energy Materials & Solar Cells, Vol. 80, No. 1, (2003), pp. 1–20. (Internet Publication Date: April 15, 2002.)			
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		50. Mills et al., "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, Vol. 39, (2004), pp. 3309-3318. (Internet Publication Date: May 3, 2002.)			
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		57. Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, J. of Quantitative Spectroscopy			
		56. R. M. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications," 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), pp. 1-4 (Internet Publication Date: March 28, 2002.)			
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		52. Mills et al., "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1–70.28. (Internet Publication Date: October, 2002)	
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		50. Mills et al., "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Vibrational Spectroscopy, Vol. 31, No. 2, (2003), pp. 195–213.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	42	of	X-98	Attorney Docket Number	
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Examiner Name	Kalafut

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		44. Mills, et. al. "Synthesis and Characterization of Lithium Chloro Hydride", <i>International Journal of Hydrogen Energy</i> , submitted. (Internet Publication Date: January 7, 2002.)			T ²
		43. Mills et al., "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen," <i>New Journal of Physics</i> , www.njp.org, Vol. 4, (2002), pp. 22.1-22.17. (Internet Publication Date: Dec. 27, 2001.)			
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Sheet	43	of	898	Attorney Docket Number	
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First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

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		36. Mills et al., "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. (Internet Publication Date: Oct. 9, 2001.)	
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		28. Mills et al., "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," <i>Int. J. Hydrogen Energy</i> , (2002), Vol. 27, No. 3, pp. 301-322. (Internet Publication Date: Aug. 1, 2001.)			
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		20. Mills et al., "Argon-Hydrogen-Strontium Discharge Light Source," IEEE Transactions on Plasma Science, Vol. 30, No. 2, (2002), pp. 639–653. (Internet Publication Date: Dec. 7, 2000.)	
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		12. Mills et al., "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749–762. (Internet Publication Date: June 28, 2000.)			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	47	of	XK98	Attorney Docket Number	
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Complete If Known

Application Number	09/110,694
Filing Date	7/7/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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<i>Complete if Known</i>	
Application Number	09/110,694
Filing Date	7/7/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut
Attorney Docket Number	

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Sheet	49	of	3/98	Attorney Docket Number	
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Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/110,694
				Filing Date	July 7, 1998
				First Named Inventor	Mills
				Group Art Unit	Unknown 1745
				Examiner Name	Unknown
Sheet	88	of	44	98	Attorney Docket Number
					62-226-8AC5

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
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Examiner Name	Unassigned		
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U.S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code ² (if known)			
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		3,816,192		Brower	06-11-1974	
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		3,917,520		Katz	11-04-1975	
		4,265,720		Winstel	05-05-1981	
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		4,487,670		Bellanger	12-11-1984	
		4,512,966		Nelson	04-23-1985	

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	101	R. L. Mills, Y. Lu, Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227 th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA. Attachment 101	
	102	R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," Phys. Essays, submitted. (Web Publication Date: April 22, 2004.)	
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Letters from John Allen to Office of Counsel, US Department of Commerce with attachments, May 12, 2003, June 7, 2003, and March 10, 2004 (see Attachment R)

/Stephen Kalafut/

11/14/2007

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Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)
Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)
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Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)
Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001 (see Attachment O)
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/110,694
				Filing Date	July 7, 1998
				First Named Inventor	Mills
				Group Art Unit	Unknown 1745
				Examiner Name	Unknown
Sheet	12	96	of	44	98
				Attorney Docket Number	
				62-226-8AC5	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Henderson et al., "More Searches for Cold Fusion", J. of Fusion Energy, Vol. 9, No. 4, (December, 1990), pp. 475-477
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		Dagani, "Cold fusion believer turned skeptic crusades for more rigorous research", C & EN (June 5, 1995) pp 34-35, 38 and 40
		Morrison, "Review of cold fusion" Sov. Phys. Usp. 34, (December 1991) pp.1085-1060
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